

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-280118

(43)Date of publication of application : 10.10.2001

(51)Int.Cl.

F01N 3/02

F02D 41/04

F02D 45/00

(21)Application number : 2000-096522

(71)Applicant : ISUZU MOTORS LTD

(22)Date of filing : 31.03.2000

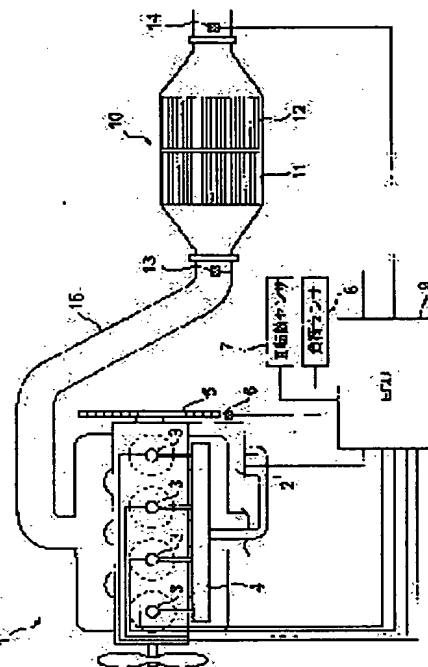
(72)Inventor : UEKUSA TAJI

(54) EXHAUST EMISSION CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINE

(57)Abstract:

PROBLEM TO BE SOLVED: To effectively prevent the deterioration of the fuel consumption of an engine caused by the clogging of a filter, and the cracking and damage of a filter caused by the abnormal combustion with respect to a continuous regeneration-type particulate filter.

SOLUTION: A DPF 10 is mounted on an exhaust pipe 15 of the engine 1. Signals from a rotating speed sensor 7, an opening of accelerator sensor 8 or the like are taken in a controller 9, an exhaust amount of the particulate and a combustion amount are respectively calculated on the basis of a particulate exhausting amount map and a combustion amount map, and an accumulation amount of particulate captured by the DPF 10 is calculated by integrating the difference therebetween. When the accumulation amount is over a predetermined amount, a temperature of the exhaust is raised by the after-injection of the fuel or the like to burn the accumulated particulate and to regenerate the DPF 10.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office